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4. (currently amended) The composition according to claim 3 1, comprising one or more compounds selected from a group consisting of 2,4-D, BAP, ABA, zeatin riboside, kinetin, 2iP and Dicamba.
  5. (currently amended) A plant growth affecting composition formed by mixing an IAA derivative selected from a group consisting of mono-substituted IAA derivatives except 5-Br-IAA, di-substituted IAA derivatives, multi-substituted IAA derivatives and mixtures thereof with at least one additional plant growth regulator.
  6. (currently amended) The composition according to claim 5, formed by mixing a mono-substituted IAA derivative except 5-Br-IAA with at least one additional plant growth regulator.

Claims 7 and 8 (canceled)

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9. (currently amended) A medium for culturing plant samples, comprising an IAA derivative selected from the group consisting of mono-substituted IAA derivatives except 5-Br-IAA, di-substituted IAA derivatives, multi-substituted IAA derivatives and mixtures thereof and further comprising at least one additional plant growth regulator.

10. The medium according to claim 9, comprising a mono-substituted IAA derivative except 5-Br-IAA and at least one additional plant growth regulator.

Claims 11-12 (canceled)

Claims 13-51 (canceled) as directed to a non-elected invention.13.

52. (original) A kit for the production of an embryogenic callus from a plant sample comprising:

at least one container; and

a callus formation medium, wherein the callus formation medium comprises an IAA derivative selected from the group consisting of mono-substituted IAA derivatives, di-substituted IAA derivatives, multi-substituted IAA derivatives and mixtures thereof and further comprises one or more additional plant growth regulators.

53. (original) The kit according to claim 52, comprising at least one container adapted for membrane-based liquid cell culture.

54. (original) A kit for the regeneration of a plant sample, comprising:

at least one container; and

a regeneration medium, wherein the regeneration medium comprises an IAA derivative selected from a group consisting of mono-substituted IAA derivatives, di-substituted IAA derivatives, multi-substituted IAA derivatives, and mixtures thereof and further comprises one or more additional plant growth regulators.

55. (original) The kit according to claim 54, comprising at least one container adapted for membrane-based liquid cell culture.

56. (original) The kit according to claim 55, further comprising a callus formation medium.

57. (new) A kit according to claim 52 wherein the callus formation medium comprises an IAA derivative selected from the group consisting of mono-substituted IAA derivatives except 5-Br-IAA, di-substituted IAA derivatives,

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multi-substituted IAA derivatives and mixtures thereof and further comprises one or more additional plant growth regulators.

58. (new) The kit of claim 52 wherein the callus formation medium comprises 5-Br-IAA, 2,4-D, BAP and ABA.
59. (new) The kit of claim 52 wherein the callus formation medium comprises 5-Br-IAA, zeatin riboside, BAP and ABA.
60. (new) The kit of claim 52 wherein the callus formation medium comprises 5-Br-IAA, 2,4-D, Dicamba, BAP and ABA.
61. (new) A kit according to claim 54 wherein the regeneration medium comprises an IAA derivative selected from a group consisting of mono-substituted IAA derivatives except 5-Br-IAA, di-substituted IAA derivatives, multi-substituted IAA derivatives, and mixtures thereof and further comprises one or more additional plant growth regulators.
62. (new) The kit of claim 54 wherein the callus formation medium comprises 5-Br-IAA, zeatin riboside and ABA.
63. (new) The kit of claim 54 wherein the callus formation medium comprises 5-Br-IAA, zeatin riboside, BAP, kinetin, 2iP and ABA.
64. (new) The kit of claim 54 further comprising a callus formation medium, wherein the callus formation medium comprises an IAA derivative selected from the group consisting of mono-substituted IAA derivatives, di-substituted IAA derivatives, multi-substituted IAA derivatives and mixtures thereof and further comprises one or more additional plant growth regulators.

65. (new) The kit of claim 64 wherein both the callus formation medium comprises and the regeneration medium comprise 5-Br-IAA.
66. (new) The kit of claim 64 further comprising a callus amplification medium.
67. (new) The kit of claim 65 wherein the callus formation medium comprises 5-Br-IAA, 2,4-D, BAP and ABA.
69. (new) The kit of claim 67 wherein the regeneration medium comprises 5-Br-IAA, zeatin riboside and ABA.
70. (new) The kit of claim 68 further comprising a callus amplification medium which comprises 2,4-D.
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